

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-16-6

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

MERCEDES-BENZ AG

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 of the Health and Safety Code; and,

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following Mercedes-Benz AG 1997 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Crane, Road Grader, Harvester, Compressor

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters</u>	<u>(Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VMB6.0R6DARA	6.0	(364)	Turbocharger Charge Air Cooler Smoke Puff Limiter

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

<u>Exhaust Emissions (g/bhp-hp)</u>				<u>Smoke Opacity (%)</u>		
<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
1.0	8.5	6.9	0.4	20	15	50

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

<u>Exhaust Emissions (g/bhp-hr)</u>				<u>Smoke Opacity (%)</u>		
<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
0.3	1.0	5.3	0.3	15	9	25

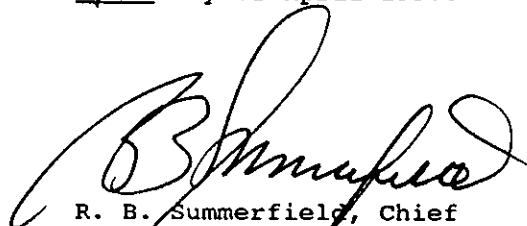
BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 7th day of April 1997.

A large, stylized handwritten signature in black ink, appearing to read 'R. B. Summerfield', is written over the typed name and title.

R. B. Summerfield, Chief
Mobile Source Operations Division

Manufacturer MERCEDES-BENZ Engine Family VMB 6.0 R6 DARA
Displacement: 6.0 / 364 Liters/Cubic Inches Eng Config: I-6
All Codes in Eng Fam: CA 49S 50S ☒ Cert Test Procedures: ARB EPA ☒
Valves/Ports per Cylinder 2 Strokes per Combustion Cycle 4
Maximum Rated Power: 248 HP (185 KW) @ 2500 RPM
Ignition: Compression ☒ Compression with Glow Plug Spark
Fuel Type(s): Dedicated ☒ Flex-Fuel Dual-Fuel Diesel ☒ M100 M85
CNG LNG LPG Other (specify)
Diesel Cert Fuel: 40 CFR 86.1313-94 ☒ Other (specify)
Primary Service Equipment: harvesters, cranes, compressors, road building machines.
Exhaust ECS (e.g., MFI, TC, CAC): CAC SPL TC
(use abbreviations per SAE J1930 JUN93)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ ₃ Rated HP mm / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
OM 366 LA (366 LA.EI/1)	248/2500	105 ... 115	EP 3808 8 002 017 8321			
OM 366 LA (366 LA.EI/2)	237/2600	98 ... 104	EP 3807 8 002 017 8321			
OM 366 LA (366 LA.EI/3)	233/2500	100 ... 106	"			
OM 366 LA (366 LA.EI/4)	229/2400	101 ... 107	"			
OM 366 LA (366 LA.EI/5)	218/2400	97 ... 103	"			
OM 366 LA (366 LA.EI/6)	208/2600	84 ... 90	"			
OM 366 LA (366 LA.EI/7)	205/2500	84 ... 90	"			

Date Issued:

Revisions: